MEPA/NEPA/HB495 CHECKLIST

PART I. PROPOSED ACTION DESCRIPTION

1. Type of Proposed State Action

Construct an interpretive nature trail at Brewery Flats FAS near Lewistown, Montana. This is a cooperative project with the Brewery Flats Trail Committee.

2. Agency Authority for the Proposed Action

DFWP has authority to provide development for public recreation on Department lands. 23-2-101 MCA.

3. Name of Project

Brewery Flats Interpretive Trail

4. Name, Address and Phone Number of Project Sponsor (if other than the agency)

Fish, Wildlife and Parks, Region Four, P.O. Box 6610, Great Falls, MT. 59406.

Brewery Flats Trail Committee, POB 987, Lewistown, MT 59457

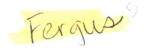
5. If Applicable:

Estimated Construction/Commencement Date <u>July.1998</u> Estimated Completion Date N/A Current Status of Project Design (% complete) 80%

6. Location Affected by Proposed Action (county, range and township)

Brewery Flats FAS near Lewistown, Montana, Fergus County. TRS (See attached maps and aerial photos).

- 7. Project Size: Estimate the number of acres that would be directly affected that are currently:
 - (a) Developed:
 residential 0 acres
 industrial 0 acres
- (b) Open Space /
 Woodlands /
 Recreation _ acres



- (c) Wetlands/Riparian
 Areas . . _6_ acres
- (d) Floodplain . . <u>2</u> acres
- (e) Productive:
 irrigated cropland
 _0
 acres
 dry cropland . _0 acres
 forestry . . _0 acres
 rangeland . _0 acres

other <u>0</u> acres

- 8. Map/site plan: See attached conceptual design
- 9. Narrative Summary of the Proposed Action or Project including the Benefits and Purpose of the Proposed Action.

The Brewery Flats Trail project presents an opportunity for cooperation between several agencies and local groups to create a needed and valuable recreational resource within Lewistown. When completed, Brewery Flats Trail will provide a variety of outdoor experiences for users of varied ages and physical abilities. It will be the first step in creating a system of trails linking several community parks, schools and civic facilities across southern Lewistown.

Site Description

Brewery Flats is located on the south edge of Lewistown, Montana. Currently the site is owned by the Montana Department of Fish, Wildlife and Parks (FWP), and is used as a fishing access to Big Spring Creek, which runs through the length of the property. Brewery Flats is bordered on the east by Montana Highway 238. On the west it is contained by an abandoned railroad right-of-way and private property. The site is crossed east to west by a single power line, and north to south by an abandoned 16" water pipeline which formerly served the City of Lewistown.

The site is an attractive natural area, and much of it is in wetlands. Wet site grasses and standing water with cattails occupy much of the site. There are also several areas of thickets, composed mainly of willows, dogwood, hawthorn and choke cherry. Several higher terraces support large trees, including cottonwood and ash.

Big Spring Creek was straightened through three-fourths of the site in the early part of this century. Currently FWP is seeking assistance to restore this portion of the creek to a more natural meandering alignment through reconstruction.

In addition, the Montana Department of Transportation (MDT) has proposed widening Highway 238 past Brewery Flats. This project may occur within the next five to ten years. Due to the steep topography east of the highway the widening is expected to occur primarily to the west, extending over parts of the present creek channel. A roadside bikeway and trail are planned as part of the road widening project.

Project Description

The Brewery Flats Trail is envisioned as a low impact accessible trail through a naturalistic site, featuring the site and its varied ecological elements. As such, it should provide minimal facilities to access and interpret the site, while providing protection for the resource and user safety. The goal of the trail is to provide a vehicle for outdoor experiences is both formal educational and informal settings. The Brewery Flats Trail is also seen as the first step to be implemented in a wider ranging system of trails linking several community parks, schools, and civic facilities across southern Lewistown.

10. Listing of any other Local, State or Federal agency that has overlapping or additional jurisdiction.

(a) Permits:

Agency Name Permit Date Filed/#

Fergus County Conservation District 310 Not yet filed pending need

US Army Corps 404 Not yet filed pending need

(b) Funding:

Through the cooperative nature of this project, in-kind and cash funding will be provided by the Brewery Flats Trail Committee and other cooperators

(c) Other Overlapping or Additional Jurisdictional Responsibilities:

Agency Name Type of Responsibility

City of Lewistown Owns water line easement adjacent to site

11. List of Agencies Consulted During Preparation of the EA:

Natural Resources Conservation Service Fergus County Conservation District MSU - Fergus County Extension

PART II. ENVIRONMENTAL REVIEW

POTENTIAL IMPACTS ON PHYSICAL ENVIRONMENT

	MAJOR	MODERATE	MINOR	NONE	UNKNOWN	COMMENTS ON ATTACHED PAGES
1. Terrestrial & aquatic life and habitats			Х			Х
2. Water quality, quantity & distribution				Х		
3. Geology & soil quality, stability & moisture				Х		
4. Vegetation cover, quantity & quality			Х			Х
5. Aesthetics		Х				Х
6. Air quality				Х		
'. Unique, endangered, fragile, or limited environmental resources				Х		
8. Demands on environmental resources of land, water, air & energy				Х		
9. Historical & archaeological sites			Х			Х

Narrative Description and Evaluation of the Cumulative and Secondary Effects on the Natural Environment:

 impact and because it is a nature trail it will be designed to fit naturally into the existing environment. The trail will not cause relocation of terrestrial or aquatic wildlife. The trail will be designed to enhance the learning environment of the area, therefore contributing to the social and education benefits.

4) Vegetative Cover, quantity and quality

Effects on vegetative cover, quantity and quality will be minimal. The construction of the trail will be a short term impact. Existing vegetative cover will be maintained as much as possible during the construction period. Native species will be used to reclaim any disturbed site with revegetation occurring as soon as possible after diversity in vegetative cover of the site and will be part of the social/education benefits.

5) Aesthetics

Brewery Flats is an attractive natural area, and much of it is in wetlands. A trail system designed and built correctly, would allow the general public to view and explore this area without disturbing the natural environment. Puncheon trail sections would open the wetland areas without any disturbance of the habitat. Sweeping curves, bench locations, interpretation signage observation blinds will add to the aesthetic beauty of the Brewery Flats area. Several foot bridges will allow movement of bicycles and walkers through the area and improve aesthetics.

9) Historical & archaeological sites

Big Spring Creek was straightened through three-fourths of the site in the early part of this century. Currently, the State of Montana Department of Fish, Wildlife and Parks is seeking assistance to restore this portion of the creek to a more natural meandering alignment through reconstruction. During preparation of the Environmental Assessment for the streambank project, Montana SHPO concurred that no properties on or eligible for NRHP appeared likely to exist within the project area. (See attached letter) Steve Aaberg surveyed the entire site in 1986 and found no cultural resources. The trail system will include interpretation signage describing the importance of history and culture in the Lewistown area and so will increase visitors appreciation of cultural resources.

POTENTIAL IMPACTS ON HUMAN ENVIRONMENT

	Г		T	1	<u> </u>	T
	MAJOR	MODERATE	MINOR	NONE	UNKNOWN	COMMENTS ON ATTACHED PAGES
1. Social structures & mores		X				Х
2. Cultural uniqueness & diversity				Х		
3. Local & state tax base & tax revenue				Х		
4. Agricultural or industrial production				Х		
5. Human health			Х			X
6. Quantity & distribution of community & personal income				Х		
7. Access to & quality of recreational & vilderness activities		Х				х
8. Quantity & distribution of employment				Х		
9. Distribution & density of population & housing				Х		
10. Demands for government services				Х		
11. Industrial & commercial activity				Х		Х
12. Demands for energy				Х		
13. Locally adopted environmental plans & goals				Х		

14. Transportation networks & traffic flows	Х		X
15. Site specific modification system wide		Х	х

Narrative Description and Evaluation of the Cumulative and Secondary Effects on Human Environment:

Potential Impacts on Human Environment

1) Social Structures and more

This project, when implemented and completed, will have a tremendous positive impact on the social structure of Lewistown and the central Montana area. As the natural beauty hydrologic function of the stream is restored, the trail system will allow people of the community, as well as visitors to the community, the opportunity to view and experience this natural The trail system will allow this experience to happen with greater safety for joggers, bicyclists, hikers fishermen, and those who are out for a casual walk in a natural environment. project will also enable the community to take a positive step forward in achieving a community goal of enhancing recreational opportunities on Biq Spring Creek. Several community organizations, through a visioning process, established the goal of creating an education and recreational trail system along this portion of the stream. When completed, unsurpassed environmental education opportunities will be one of the most long lasting benefits of this trail project for this generation and generations Across to the stream, by way of this trail system, is the critical linkage between the curriculum development efforts of local educators and the Brewery Flats Stream Restoration Project on Big Spring Creek.

5) Human health

When completed, Brewery Flats Trail will provide a variety of outdoor experience for users of varied ages and physical abilities. Walkers will benefit from the safety of the trail, collect ones thoughts, and observe nature. Joggers, walkers and bicyclists will enjoy the safety of the trail away from motor traffic. The trail will even provide access to fishermen who are restricted to a wheelchair. All trails will meet ADA standards

and be maintained throughout the spring, summer and fall.

- 7) Access to & quality of recreation & wilderness activities
 When completed, Brewery Flats Trail will provide many
 recreational activities. Fishing access, walking, jogging,
 biking, and other recreational activities will be available to
 local residents and visitors to Central Montana. These activities
 will provide fun for all. As stated before, this area is rich in
 flora and fauna. The quality of the recreation and the
 observation of plants and animals will be a great area for school
 and club environmental studies. Access to the recreation area is
 within walking distance of several schools in Lewistown.
- 10) Demands on Government Services HB 495 Requirement Long Range Maintenance of the Improvements.

This proposal will not add significantly to the commitment of operation and maintenance funds for the Department because of the cooperative partnership envisioned for the project. The trail will be developed to be low maintenance, agin with the community providing significant assistance. This site is already regularly visited by a caretaker.

11) Commercial Activity - HB495 Requirement - Impacts on Tourism

Please see attached Tourism Report from Department of Commerce.

14) Transportation network & traffic flows

The Montana Department of Transportation has proposed widening Highway 238. Due to the steep topography east of the highway the widening is expected to occur primarily to the west, extending over parts of the present creek channel. This will be incorporated into the Brewery Flats Trail creating several loops in the area. A Community Visioning Plan has anticipated the growth and extension of a trail system throughout the city of Lewistown and beyond.

15) HB 495 Requirement - How this project relates to the entire Fishing Access Site System, as a whole.

This project will allow not only access but education and additional opportunity to visitors to Brewery Flats FAS. This project will meet the multiple objectives of both the FAS system and the Department as whole including opportunity, environmental education, diverse but appropriate recreational opportunities and building community stewardship for access sites and the fisheries

resource.

2. Description and analysis of reasonable alternatives (including the no action alternative) to the proposed action whenever alternatives are reasonably available and prudent to consider and a discussion of how the alternatives would be implemented:

No Action. The no action alternative would result in no formal opportunity at this site for environmental education. A unique opportunity for youth and community education and stewardship would be lost.

Project as proposed.

Our preferred alternative.

3. Evaluation and listing of mitigation, stipulation, or other control measures enforceable by the agency or another government agency:

None.

4. Based on the significance criteria evaluated in this EA, is an EIS required? If an EIS is not required, explain why the EA is the appropriate level of analysis for this proposed action:

An EIS is not required.

With no anticipated significant impacts to the environment or the public the EA is the appropriate level of analysis.

5. Public involvement for this project.

The level of public involvement is very high. The Brewery Flats Stream Restoration and Trail Committee organized in November 1996. Monthly meetings have been held since that time. Additionally, a public meeting held in December 1996 where Dave Rosgen, renowned stream restoration hydrologist explained the stream restoration project and in addition the trail project was reviewed. The local News Argus has featured numerous articles about the project over the last two years. Additionally, the Lewistown School District has been an active participant in the planning and development of the trail to enhance the school curriculum. The project has broad support of the community and

is expected to enrich lives of the local citizens.

A thirty-day public comment period will begin on March 13,1998. Notice of this proposal will be published in the Lewistown News Argus and the Helena Independent Record.

- 6. Duration of comment period if any: 30 days from announcement.
- 7. Name, title, address and phone number of the Person(s)
 Responsible for Preparing the EA:
 Douglas Habermann, Smith River District Parks Manager, POB 6610,
 Great Falls, Montana 59406. (406)454-5857.
 Ted Hawn, Natural Resource and Conservation Service, 211 McKinley
 St, Lewistown MT 59457 (406)538-7401
 Steve Paulson, POB 987, Lewistown, MT 59457 (406)538-2255
 Dave Phillips, MSU-Fergus County Extension, 712 W Main,
 Lewistown, MT 59457 (406)538-7611

MONTANA ENVIRONMENTAL POLICY ACT (MEPA)/HB 495 TOURISM REPORT

Project Name:

Brewery Flats FAS Interpretive Trail

Project Description:

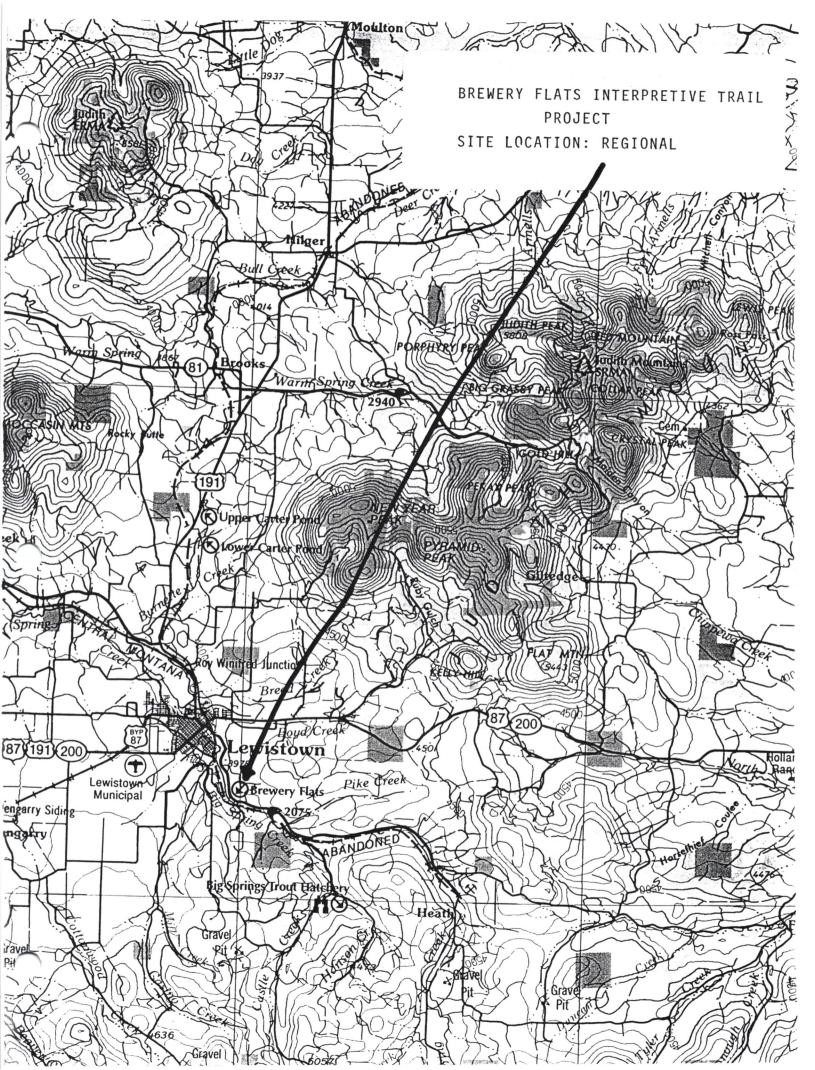
The Brewery Flats Trail project presents an opportunity for cooperation between several agencies and local groups to create a needed and valuable recreational resource within Lewistown. When completed, Brewery Flats Trail will provide a variety of outdoor experiences for users of varied ages and physical abilities. It will be the first step in creating a system of trails linking several community parks, schools and civic facilities across southern Lewistown.

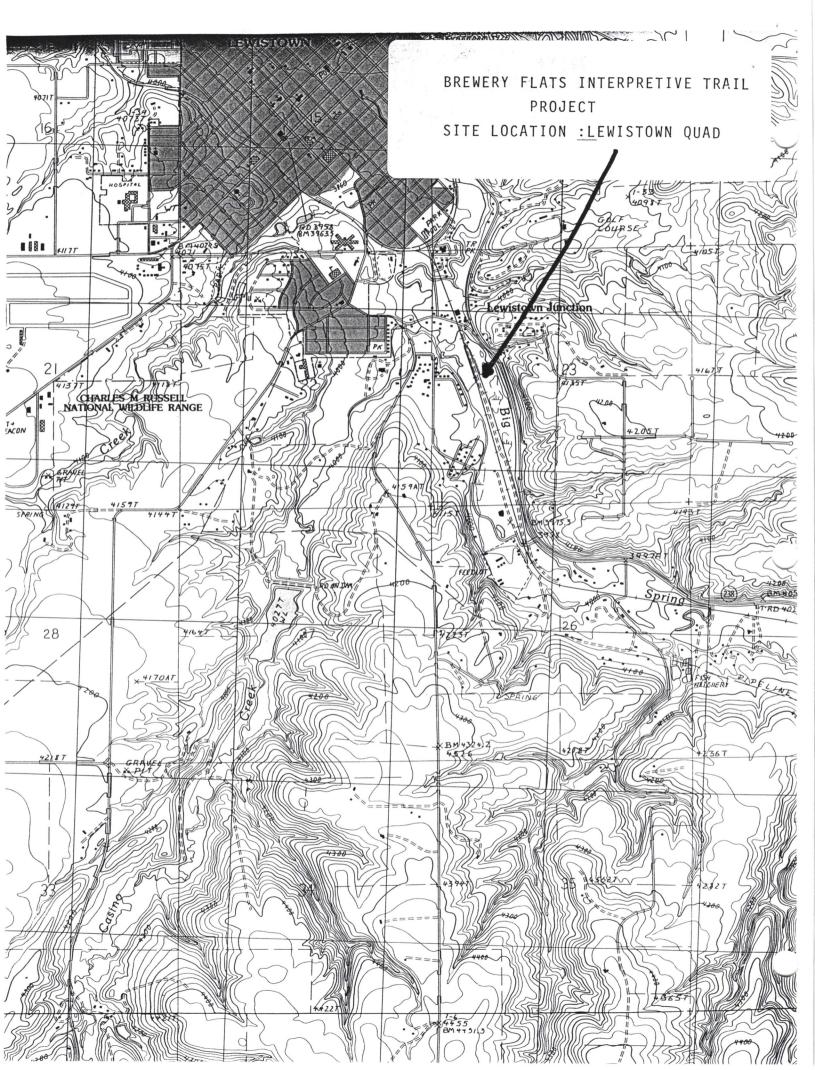
12.8.604(1) ARM defines tourism as the guidance or management of tourists (residents and nonresidents), who are the individuals who make tours for pleasure or education; and site development projects will be sent to the department of commerce with a request for review as to the impacts on tourism economy.

MEPA: Human Environment. 11:c. Alteration of the quality or quantity of recreation/tourism opportunities and settings?

Considering tourism under ARM rules and MEPA Human Environ	ment 11, listed above,
describe how this project will impact the tourism economy:	
Travel Montana envisions that the prope	and Brewery Hats
Trail project will positively infact the loca	leonomy! More
visitors will be encouraged to when the	eir stay in the
Lewistown area, and will therefore spend	more money dos
fool lodging etc.	(1)
	V
Signature (Religional	Date 3/,0/98

Please return to Doug Habermann, P.O Box 6610, Great Falls, 59406.





Montana Department of Fish Wildlife & Parks

1420 East Sixth Avenue P.O. Box 200701 Helena, Montana 59620-0701 RECEIVED

JUN 26 1995

FISHERIES DIV.
DEPT. FISH, WILDLIFE & PARKS

MAY 3 1 1995.

Mark Baumler
Acting State Historical Preservation Officer
State Historical Preservation Office
1410 8th Avenue
Helena, Montana 59620

RECEIVED

JUN 26 1995

DESIGN & CONSTRUCTION
DEPT. OF FISH, WILDLIFE & PARKS

RE:Brewery Flats FAS

May 26, 1995

Dear Mark

The department of Fish, Wildlife & Parks is proposing a project at the Brewery Flats FAS, Fergus Co., T-15N, R-18E, Sec. 26.

The proposed project involves realignment of the creek channel from a straight alignment to a more meandering channel. This realignment will greatly improve fish habitat for this section of the Big Spring Creek.

A cultural survey was completed at this site by Steve Aaberg, Feb. 7, 1986. No cultural resources were located in this survey. Thus, we feel this project will have a low likelihood of impacting any cultural resources.

Please provide comment on this proposed project.

Sincerely,

MICHAEL D. HORN Assistant Cultural Resources Coordinator Design & Construction Bureau Montana Fish, Wildlife & Parks

Attachment: None

CONCUR

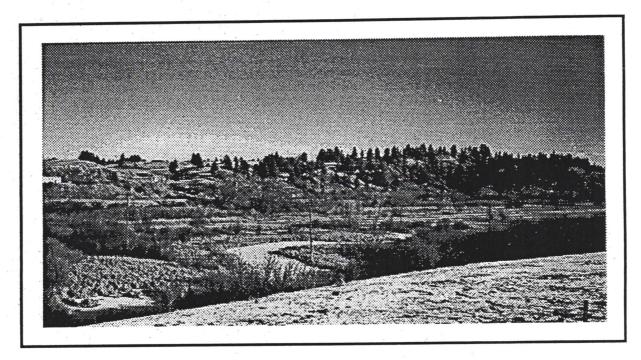
NO PROPERTIES ON OR ELIGIBLE FOR NRHP APPEAR LIKELY TO EXIST WITHIN PROJECT IMPACT AREA

MONTANA/SHPO

A Conceptual Design Report for

BREWERY FLATS TRAIL

Lewistown, Montana



prepared for

The Brewery Flats Trails Committee Lewistown, Montana

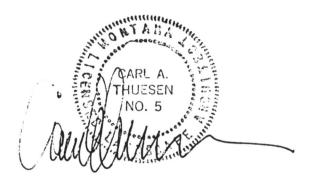
prepared by

Carl Thuesen, ASLA Landscape Architecture Billings, Montana

December 12, 1997

A Conceptual Design Report for BREWERY FLATS TRAIL

Lewistown, Montana



Carl Thuesen, ASLA
Golf Course Architecture • Irrigation Design • Landscape Architecture
1925 Grand Avenue, #105
Billings, Montana 59102

406/252-5545

December 12, 1997

A conceptual Design Report for

BREWERY FLATS TRAIL

Lewistown, Montana December 12, 1997

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<u>NARRATIVE</u>

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Signs
Seating
Bridges
Observation Blind

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Typical Trail Section
Puncheon Trail Section
Schematic Trail Plan
Trail Node Detail
Observation Blind Concept
Blind Section Concept

CONSTRUCTION BUDGET ESTIMATE

Phase One Phase Two

PLANS

Concept Plan - Sheet 1 Context & Linkage - Sheet 2

Summary

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The site is an attractive natural area, and much of it is in wetlands. Wet site grasses and standing water with cattails occupy much of the site. There are also several areas of thicket, composed mainly of willows, dogwood, hawthorn and chokecherry. Several higher terraces support large trees, including cottonwood and ash.

Big Spring Creek was straightened through three fourths of the site in the early part of this century. Currently FWP is seeking assistance to restore this portion of the creek to a more natural meandering alignment through reconstruction. While the exact design of the recreated stream channel is unknown at this time, a conceptual alignment generated by preliminary FWP work sessions is shown on the Concept Plan, sheet 1. In addition, the Montana Department of Transportation (MDT) has proposed widening Highway 238 past Brewery Flats. This project may occur within the next five to ten years. Due to the steep topography east of the highway the widening is expected to occur primarily to the west, extending over parts of the present creek channel. A roadside bikeway and trail is planned as part of the road widening project.

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The Brewery Flats Trail is envisioned as a low impact accessible trail through a naturalistic site, featuring the site and its varied ecological elements. As such it should provide minimal facilities to access and interpret the site, while providing protection for the resource and user safety. The goal of the trail is to provide a vehicle for outdoor experiences in both formal educational and informal settings. The Brewery Flats Trail is also seen as the first step to be implemented in a wider ranging system of trails linking several community parks, schools and civic facilities across southern Lewistown, refer to sheet 2, Context and Linkage.

Project Phasing and Costs

The Brewery Flats Trail is proposed for construction in two phases. Phase one will extend from the existing parking area near the center of the site north to Ash Street, refer to sheet 1, Concept Plan. Construction of the roadside bikeway and trail along Highway 238 will complete a looped trail from Ash Street back to the parking area. Phase one includes construction of parking area improvements, an orientation/lecture area, two crossings of Big Spring Creek, a wildlife observation blind, signage and seating, and the trails to link these elements. The project program outlines specific conceptual attributes for these elements, several of which are also shown by the sketch thematic illustrations. The existing bridge accessing the parking area from Highway 238 could be reused with modifications to create the two stream crossings. All elements of the trail will be handicapped accessible and constructed to ADA Standards for outdoor recreational facilities. Phase one construction is estimated to cost approximately \$110,000 in 1997 dollars. An itemized budget level construction estimate is attached.

Brewery Flats Trail phase two construction will extend the phase one trail south to the bridge at Railroad Avenue and the south fishing access. To accomplish this the proposed trail alignment will follow the existing right-of-way for the old waterline between the two FWP owned fishing access sites, refer to sheet 1, Concept Plan. Construction of the roadside bikeway and trail along Highway 238 will complete a looped trail from Railroad Avenue back to the parking area. Phase two includes construction of signage and seating, and the trails. The project program outlines specific conceptual attributes for these elements. Several sketch thematic illustrations are included to show how these may appear. All elements of the trail will be handicapped accessible and constructed to ADA Standards for outdoor recreational facilities. Phase two construction is estimated to cost approximately \$72,000 in 1997 dollars, refer to the attached estimate.

Brewery Flats Trail Development Program - December 12, 1997

Parking Area

- retain existing location, revise layout
- gravel surfacing
 - parking for 5 cars + 1 HC
 - parking for 1 buss/oversize RV
- ADA accessible surfaced pad for 1 HC vehicle parking

Orientation/Lecture Area

- natural grass area large enough for 40 people
 - wood bollards for definition & vehicle control
- interpretive kiosk with orientation information

Trails

- meander along edges of different ecological areas
- provide stream access
 - access stream at several points
 - do not route main trail along stream bank
- nodes along trail provide spaces for extended viewing/seating
- ADA accessible surfacing
- dry site trail closely matches existing grades
- wet site trail is built up to provide firm trail section
- linkage
 - to proposed roadside trail/bikeway
 - to schools and other civic centers identified longer range

Signs

- mounting heights per ADA
- orientation signage provided
 - steel tubing posts, self rusting finish
 - routed wood signboards, FWP standard
- interpretive signage
 - steel tubing posts, self rusting finish
 - etched metallic or fiberglass signboards for graphics & text

Seating

heavy rustic log style

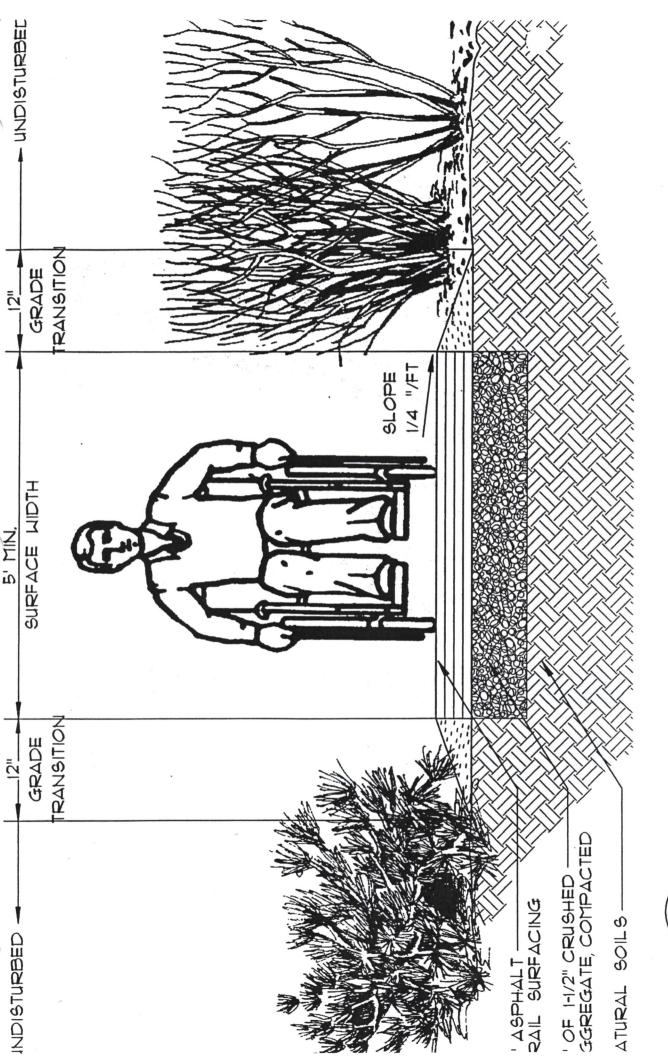
Bridges

- two bridges created using existing railcar beds
 - add railings
 - new decking

Observation "Blind"

- designed for security
- low enclosure wall

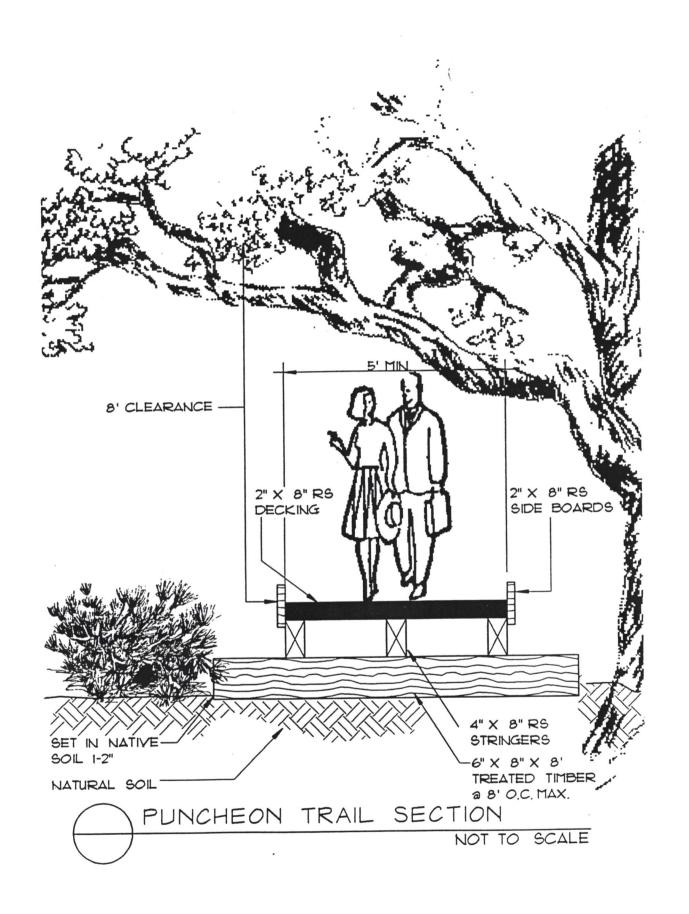
- CMU structure
 natural stone veneer from nearby historic quarry
 wall mounted interpretive signage possible seating for larger groups

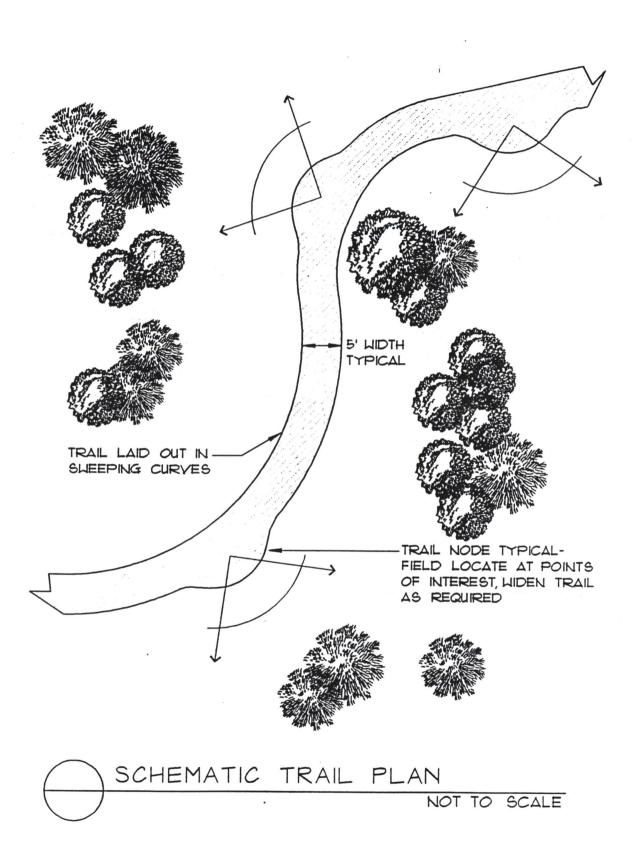


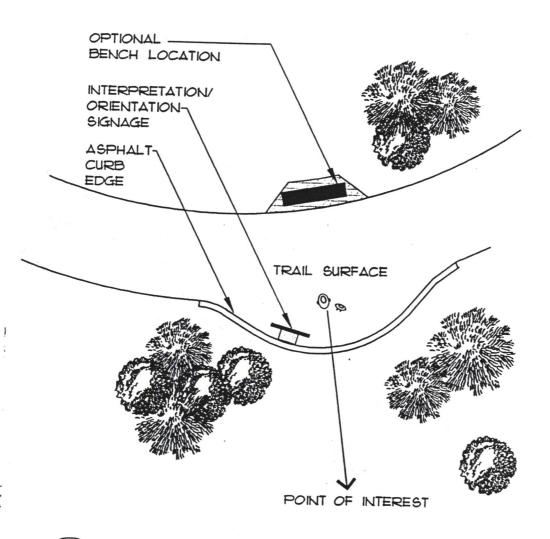
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TYPICAL TRAIL SECTION

NOT TO SCALE





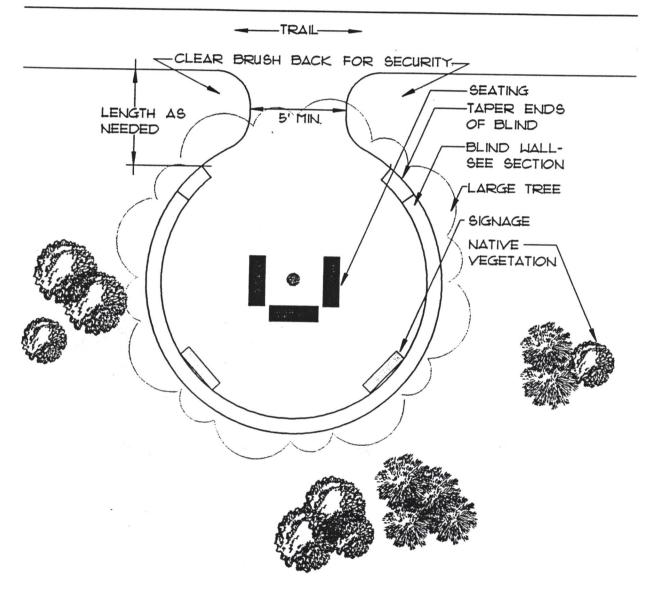


TRAIL NODE DETAIL

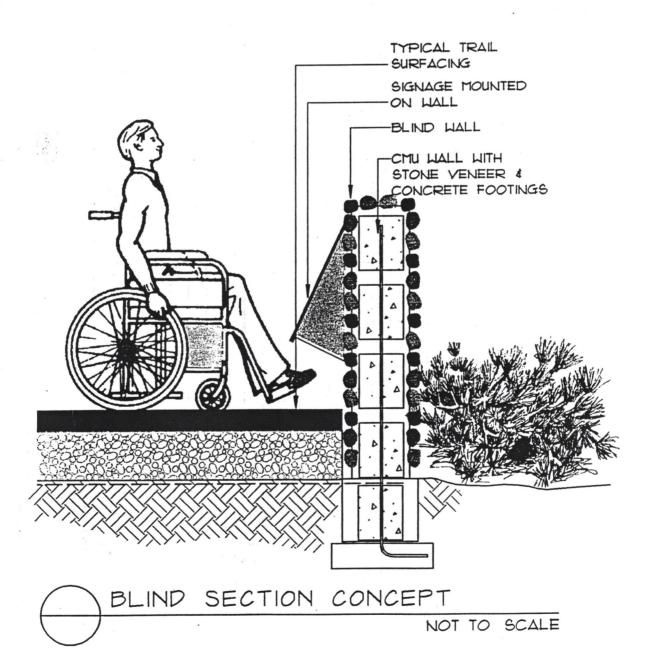
NOT TO SCALE











Construction Budget Estimate

PHASE 1 BUDGET	ìET						
Parking Area							
אדמ	UNIT	ITEM DESCRIPTION	SIZE	TYPE	DATE	UNITCOST	EXTENDED COST
006	SΥ	gravel site parking	2" cushion 6" pi	Pioneer Ready Mix E	83094	\$6.75	\$6.075.00
45		Asphalt pavement - site parking HC pad	2-1/2" asphalt,	Pioneer Ready Mix E	83094	\$12.60	\$567.00
-	EA	Handicapped parking sign		post mounted	***************************************	\$200.00	\$200.00
		Subtotal					\$6,842.00
Orientation/Lecture	ure Area				rivernamentelement		
ary	TINN	ITEM DESCRIPTION	SIZE	TYPE	DATE	UNIT COST	EXTENDED COST
15		Topsoil imported and spread		rough graded only	103091	\$17.00	\$255.00
300		Finish Grading		loose earth	103091	\$0.10	\$30.00
300		Native Hydroseeding		2 pass	112895	\$0.12	\$36.00
20		wood bollard	6" x 8" x 5'-4"	full treated, std guard	101993	\$17.46	\$349.20
	LS	orientation kiosk	3 sided	tubular frame with pla	101993	\$2,000.00	\$2,000.00
		Subtotal			-		\$2.670.20
					***************************************		-
Normal Trail Section - 1,946 feet	lon - 1,94	6 feet			***************************************		
ary	UNIT	ITEM DESCRIPTION	SIZE	TYPE	DATE	UNITCOST	EXTENDED COST
185	Շ	Excavation	Bobcat	Unclassified	-	\$8.50	\$1.572.50
185		base gravel for trails		crushed aggregate, pl	61588	\$20.00	\$3,700.00
1100	λS	Asphalt trail surfacing	5' wide, 2" thic		83094	\$9.00	\$9.900,00
		Subtotal			***************************************		\$15,172,50

Puncheon (Wet S	ite) Trail	Puncheon (Wet Site) Trail Section - 162 feet		A			***************************************
ary	TINU	ITEM DESCRIPTION	SIZE	TYPE	DATE	UNITCOST	EXTENDED COST
30		puncheon timbers	9"x 6" x 8'	treated pine/fir - ms	72189	\$16.00	\$480.00
850	SF	Boardwalk	5' wide	2 x 12" rough cut pla	112795	\$6.60	\$5.610.00
		Subtotal					\$6,090.00

Signs							**************************************
עזג	TINU	ITEM DESCRIPTION	SIZE	TYPE	DATE	UNITCOST	EXTENDED COST
5		orientation/directional sign		routed wood, post mo	112897	\$350.00	\$1,750.00
9	EA	ive signs - design, fabrication, mounting &	installation	fibreglass or dura-tec	112897	\$2,000.00	\$12,000.00
		Subtotal					\$13,750.00

Page 1

Construction Budget Estimate

1

Sealing Sealing	-		~				-
עדע	UNIT	ITEM DESCRIPTION	SIZE	TYPE	DATE	UNIT COST	EXTENDED COST
5	EA	traditional bench	8' long, no inte	rustic log constructio	101190	\$800.00	\$4,000,00
		Subtotal					\$4,000.00
							6
Bridges							
עדע	UNIT	ITEM DESCRIPTION	SIZE	TYPE	DATE	UNITCOST	EXTENDED COST
2	EA	salvage existing rail car deck bridges			112897	1	\$4,000.00
2	EA	new decking for existing rail car bridges		treated wood planking	112897	L	\$7,000.00
2		new steel railings for existing rail car bridges		treated wood planking	112897	L	\$7,000.00
2	EA	new mountings for existing rail car bridges	10' wide	includes footings, cra	82994		\$10,000,00
		Subtotal					\$28,000.00
Observation Blind - 30' diameter	1 - 30' dia	meter			***************************************		
עדמ	UNIT	ITEM DESCRIPTION	SIZE	TYPE	DATE	UNITCOST	EXTENDED COST
14		Excavation	Bobcat	Unclassified		\$8.50	\$119,00
14		base gravel for trails	1-1/2" minus, 6	crushed aggregate, pl	61588	\$20.00	\$280.00
80		Asphalt trail surfacing	5' wide, 2" thic	2" thic asphalt only, installat	83094	\$9.00	\$720.00
75		spread footing	24 x 8"	concrete	103091	\$6.00	\$450.00
75		block retaining wall	72" high	grout cells	103091	\$33.00	\$2,475.00
525		natural stone wall veneer		locally quarried, mor	82994	\$7.00	\$3,675.00
8	EA	traditional bench	8' long, no inte	rustic log constructio	101190	\$800.00	\$2.400.00
		Subtotal					\$10,119.00
***************************************		Total Estimated Construction					\$86,643.70
_	ST	Contingency	0.1			\$8,664.37	\$8,664.37
-	rs	Design/Construction Administration				\$14,296.21	\$14.296.21
		Total Phase 1 Budget Estimate					\$109,604.28





















Coucept Plans System Brewery Flats Trail System

4





